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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/607,012	06/27/2003	Charles W. Walker JR.	ARL 03-02	4966
37064	7590 12/21/2005		EXAMINER	
OFFICE OF COMMAND COUNSEL, U.S. ARMY MATERIEL COMMAND			HARLAN, ROBERT D	
ATTN: AMCCC-B-IP			ART UNIT	PAPER NUMBER
9301 CHAPEK ROAD			1713	
FORT BELVO	OIR, VA 22060-5527		DATE MAILED: 12/21/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/607,012	WALKER, CHARLES	3 W.		
		Examiner	Art Unit			
	·,	Robert D. Harlan	1713			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet	with the correspondence addre	ess		
THE in External Exter	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Is period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may within the statutory minimum of vill apply and will expire SIX (6) Moreouse the application to become	a reply be timely filed thirty (30) days will be considered timely. IONTHS from the mailing date of this commerce ABANDONED (35 U.S.C. § 133).	nunication.		
Status						
1)🖂	Responsive to communication(s) filed on 29 Se	eptember 2005.				
2a)⊠	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the						
	osed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠ 5)□ 6)⊠ 7)⊠	Claim(s) 1-7,9-22 and 29-34 is/are pending in to 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1-7,9-14,19-22,29-31 and 34 is/are reclaim(s) 15-18,32 and 33 is/are objected to.  Claim(s) are subject to restriction and/or	vn from consideration.		·		
Applicati	on Papers					
9)[	The specification is objected to by the Examine	г.				
	The drawing(s) filed on is/are: a) acce		to by the Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abey	ance. See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correcti	ion is required if the drawi	ng(s) is objected to. See 37 CFR	1.121(d).		
11)	The oath or declaration is objected to by the Ex	aminer. Note the attach	ed Office Action or form PTO	-152.		
Priority u	ınder 35 U.S.C. § 119					
a)[	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the prior application from the International Bureau  See the attached detailed Office action for a list of	s have been received. s have been received in the little i	Application No en received in this National St	age		
Attachmen	t(s)					
1) 🔯 Notic	e of References Cited (PTO-892)	• —	w Summary (PTO-413)			
3) 🔲 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		lo(s)/Mail Date of Informal Patent Application (PTO-1	52)		

Application/Control Number: 10/607,012 Page 2

Art Unit: 1713

#### DETAILED ACTION

- 1. The Amendment by Applicant on 9/29/05 has been entered.
- 2. Claims 8 and 23-28 have been canceled.
- 3. New claims 29-34 have been added.

### Response to Amendment/Arguments

- 4. Applicant's amendment and arguments filed on 03/12/02 have been fully considered and they are found persuasive.
- 5. The rejection of claims 1-6; 15-18 and 20-21 under 35 U.S.C. 102(b) as being anticipated by Homma et al., Journal of Applied Polymer Science, vol. 75, pages 111-118 (2000) (hereinafter "Homma") is withdrawn.
- 6. The rejection of claims 7 under 35 U.S.C. 103(a) as being unpatentable over Homma is withdrawn.
- 7. The rejection of claims 8-14 and 19 under 35 U.S.C. 103(a) as being unpatentable over Homma in view of Walker, Journal of

Art Unit: 1713

Power Sources, vol. 110 pages 144-151 (2002) (hereinafter "Walker") is withdrawn.

## Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. The factual inquiries set forth in *Graham* v. *John Deere*Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 10. Claims 1-7, 9-14, 19-22 and 29-31 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Park et al., U.S.

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Application/Control Number: 10/607,012

Art Unit: 1713

Patent No. 6,271,278 (hereinafter "Park"). Park teaches a super-porous hydrogel composite comprising a mixture of ethylenically unsaturated monomers, a cross-linking agent and a disintegrant containing a second polymer. See Park, Abstract; col. 4, line 45 through col. 5, line 30; col. 6, lines 34-42; col. 12, lines 52-58. Park differs from the present invention in that the present invention expressly claims a first sulfonic and/or phosphonic and a second monomer while Park teaches, in general, a small list of monomers and mixtures including AMPS and HEMA.

11. The basic requirements of prima facie case of obvious are:

(1) there must be some suggestion or motivation, either in the reference themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings; (2) there must be a reasonable expectation of success; (3) the prior art reference (or references when combined) must teach or suggest all the claim limitations. See MPEP 2143. "There are three possible sources for a motivation to combine references: the nature of the problem to be solved, the teachings of the prior art, and the knowledge of persons of ordinary skill in the art." See In re
Rouffet, 149 F.3d 1350, 1357, 47 USPQ2d 1453, 1457-58 (Fed. Cir.

Art Unit: 1713

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1998). Although Park does not disclose in the working examples a AMPS/HEMA monomer mixture, based on the specification as a whole a polymer chemist of ordinary skill in the art would be motivated to modify Park by preparing AMPS/HEMA copolymers. Such modification would be obvious because the working examples demonstrate the mixtures of AA/AM monomers, the advantages of hydrophilic/hydrophobic monomer mixtures and one would have a reasonable expectation of success that copolymers as taught by Park would be similarly useful and applicable to producing hydrogels. Therefore, claims 1-7, 9-14, 19-22, 29-31 and 34 are deem as being unpatentable over Park.

12. Claims 15-18 and 32-33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Art Unit: 1713,

- 14. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.
- 15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert D. Harlan whose telephone number is (571) 272-1102. The examiner can normally be reached on Mon-Fri, 10 AM 8 PM.
- 16. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David W. Wu can be reached on (571) 273-1114. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 1713

17. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Robert D. Harlan Primary Examiner Art Unit 1713

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